What Is Claimed Is:

1. A contact surface for electrical contacts, having an Ag layer deposited on a copper-based substrate using galvanic methods, wherein the Ag layer includes finely dispersed graphite particles in a quantity of between 1 to 3 weight % of the Ag layer, the graphite particles having a length in a range of 0.5 to 20 μm.

2. The contact surface as recited in Claim 1, wherein the graphite particles have a length in the range of 1 to 10 μm.

3. The contact surface as recited in Claim 1 or 2, wherein the graphite particles have a thickness in the range of 0.05 to 2 μm.

4. The contact surface as recited in one of Claims 1 through 3, wherein the ratio of thickness to length of the graphite particles is within the range of 1:2 to 1:40.

5. The contact surface as recited in one of the preceding claims, wherein the graphite particles are preferably arranged anisotropically/statistically along the habitus plane of the Ag layer.

6. The contact surface as recited in one of the preceding claims, wherein the layer thickness of the Ag layer is in the range of approximately 1 to approximately 10 μm.

7. The contact surface as recited in one of the preceding claims, wherein the graphite particles do not have the maximum thickness and width simultaneously.

8. Use of the contact surface as recited in one of the preceding claims for electrical contacts in automotive plug connections in close proximity to the engine.